



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/661,292

09/12/2003

Harrison Robert Murphy

2138.001B

7437

23405

7590

06/12/2007

HESLIN ROTHENBERG FARLEY & MESITI PC  
5 COLUMBIA CIRCLE  
ALBANY, NY 12203

EXAMINER

CONLEY, FREDRICK C

ART UNIT

PAPER NUMBER

3673

MAIL DATE

DELIVERY MODE

06/12/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/661,292

Applicant(s)

MURPHY ET AL.

Examiner

FREDRICK C. CONLEY

Art Unit

3673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 29 March 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 3, 21-26, 28-30, 33-35 and 39-49 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 3 21-26 28-30 33-35 39-49 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/29/07 has been entered.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 21-26, 28-30, and 33-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 6,718,583 to Diaz in view of U.S. Pat. No. 4,794,037 to Hosoda et al., U.S. Pat. No. 3,493,980 to Haller, and further in view of U.S. Pat. No. 3,956,783 to Stroller.

Claims 3 and 28-30, Diaz discloses an open flame resistant mattress comprising a fire barrier textile at least partially enclosing a core comprising a foam material, said fire barrier textile is defined by two distinct fabric layers: (1) a fire barrier fabric layer 20 and (2) a thermally insulating fabric layer 14, said fire barrier fabric layer comprising at least one char-forming flame-retardant fiber, such as an aramid fiber (col. 3 lines 34-49).

Diaz fails to disclose the thermally insulating layer having one char-forming flame retardant fiber. Hosoda discloses a fabric having at least one char-forming flame retardant fiber, such as flame retardant viscose fibers (col. 2 lines 43-55). It would have been obvious for one having ordinary skill in the art at the time of the invention to employ a flame retardant fiber as taught by Hosoda (col. 2 lines 43-45) in order to impart a high level of flame proofness to the thermally insulating later of Diaz. Diaz also fails to disclose an outermost decorative fabric layer. Haller discloses a mattress having an outermost decorative fabric layer (12,14,16) with upholstery layers disposed between a core and the outermost decorative fabric layer (col. 3 lines 30-54). It would have been obvious for one having ordinary skill in the art at the time of the invention to employ an outermost covering layer as taught by Haller wherein the fire barrier textile layer is disposed between the outermost layer and the core in order to provide a sanitary mattress (col. 1 lines 25-30). Diaz fails to disclose attaching the thermally insulating layer to the fire barrier layer via needle punching. Stroller discloses needle punching layers of materials together to form a mattress (col. 1 lines 1-22). It would have been obvious for one having ordinary skill in the art at the time of the invention to employ needle punching as taught by Stroller in order for the mattress to resist soiling and not absorb moisture (col. 1 lines 18-20).

Claims 39-41, Diaz, as modified, discloses all of the Applicant's claimed limitations except for the mattress meeting the smoldering resistance standard, resisting an open flame under conditions of California TB 117, and California TB 603, wherein the mattress has a maximum heat release of less than 200 kW and a total energy

release of less than 25 MJ in the first ten minutes of the test. It would have been obvious for one having ordinary skill in the art at the time of the invention to have the mattress resist an open flame under conditions as stated above in order for the mattress of Diaz to meet the standards for institutional mattresses sold in the State of California.

Claims 21-25, 33-35, and 42-47, Diaz discloses an open flame resistant mattress comprising a fire barrier textile at least partially enclosing a core of said mattress, said fire barrier textile is defined by two distinct fabric layers: (1) a non-woven fire barrier fabric layer 20 and (2) a thermally insulating fabric layer 14 comprised of a nylon fabric, said fire barrier fabric layer comprising at least one char-forming flame-retardant fiber, such as an aramid fiber (col. 3 lines 34-49), wherein said fire barrier fabric layer is attached to said thermally insulating fabric layer by stitching (col. 3 lines 34-44). Diaz fails to disclose the thermally insulating layer having one char-forming flame retardant fiber. Hosoda discloses a fabric having at least one char-forming flame retardant fiber, such as flame retardant viscose fibers (col. 2 lines 43-55). It would have been obvious for one having ordinary skill in the art at the time of the invention to employ a flame retardant fiber as taught by Hosoda (col. 2 lines 43-45) in order to impart a high level of flame proofness to the thermally insulating layer of Diaz. Diaz fails to disclose the mattress resisting an open flame under conditions of California TB 117. It would have been obvious for one having ordinary skill in the art at the time of the invention to have the mattress resist an open flame under conditions as stated above in order for the mattress of Diaz to meet the standards for institutional mattresses sold in the State of California.

With regards to claim 26, Diaz, as modified, discloses all of the Applicant's claimed limitations wherein the thermally insulating fabric layer comprises a blend of flame retardant viscous and other fibers (Hosoda)(col. 2 lines 43-55). Diaz fails to disclose employing modacrylic fibers. It is considered obvious to choose from a plethora of known materials for use in bedding and it would have been obvious for one having ordinary skill in the art at the time of the invention to employ a modacrylic fiber in order to provide the blended fiber product as taught by Hsoda (col. 2 lines 48-50).

Claim 48-49, Diaz, as modified, discloses all of the Applicant's claimed limitations according to claim 31, wherein Diaz illustrates that it is well known to employ a mattress foundation with the mattress (fig. 4). It is well known that upholstery is employed over the cores of mattresses and mattress foundations such as box springs and it would have been obvious for one having ordinary skill in the art at the time of the invention to employ a fire barrier textile over the mattress foundation in order to provide a fire retardant foundation.

### ***Response to Arguments***

Applicant's arguments with respect to claims 3, 21-26, 28-30, 33-35, and 39-41 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FREDRICK C. CONLEY whose telephone number is 571-272-7040. The examiner can normally be reached on M-TH.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, PATRICIA L. ENGLE can be reached on 571-272-6660. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FC  
